<div style="text-align:right">**R18**</div>

ANURAG Engineering College
(An Autonomous Institution)
IV B.Tech II Semester Regular/Supplementary Examinations, April – 2024
MOBILE COMPUTING
(COMPUTER SCIENCE AND ENGINEERING)

Time: 3 Hours   **Max.Marks:75**

Section – A (Short Answer type questions)   (25 Marks)
Answer All Questions

		Course Outcome	B.T Level	Marks
1.	Outline the limitations / challenges of mobile computing.	CO1	L2	2M
2.	Define CDMA.	CO1	L1	3M
3.	What is the key mechanism in Mobile IP?	CO2	L1	2M
4.	Explain DHCP.	CO2	L2	3M
5.	Summarize the working of selective retransmission in TCP to support mobility.	CO3	L2	2M
6.	State any 2 advantages and disadvantages of Transmission / time out freezing.	CO3	L1	3M
7.	What is Ad-Hoc?	CO4	L1	2M
8.	Classify the routing algorithms used in Mobile Ad hoc Network (MANET).	CO4	L2	3M
9.	List three benefits of WAP (Wireless Access Protocol).	CO5	L1	2M
10.	What is meant by Bluetooth?	CO5	L1	3M

Section B (Essay Questions)
Answer all questions, each question carries equal marks.   (5 X 10M = 50M)

			Course Outcome	B.T Level	Marks
11.	A)	Explain the architecture and Applications of mobile computing.	CO1	L3	10M
		OR			
	B)	Demonstrate the working of GSM with the help of a neat diagram.	CO1	L3	10M
12.	A)	Explain tunneling and encapsulation in mobile IP.	CO2	L3	10M
		OR			
	B)	What are the main functions of DHCP? Why is DHCP needed? Can it be used when nodes are mobile? Explain your answer.	CO2	L3	10M
13.	A)	Explain in detail about traditional TCP and Transaction Oriented TCP.	CO3	L3	10M
		OR			
	B)	Explain the following: i) Indirect TCP ii) Snooping TCP	CO3	L3	10M
14.	A)	Explain the Destination Sequenced Distance Vector routing protocol.	CO4	L3	10M
		OR			
	B)	How to pass messages using Dynamic Source Routing algorithm? Explain with example.	CO4	L3	10M
15.	A)	With a neat sketch explain the architecture of WAP and its operational support.	CO5	L3	10M
		OR			
	B)	Discuss Bluetooth system and its architecture.	CO5	L3	10M